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(54) Title: MAT

(57) Abstract: A mat with a textile surface (1) and an elastomer backing layer (2) that includes elastomer crumbs and a binder. The
elastomer backing layer (2) includes voids between the elastomer crumbs for increased flexibility.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96 22413 A (EKOTEX S R O ;VOREL VITEZSLAV (CZ)) 25 July 1996 (1996-07-25) claims 1-3	1-20, 23-25, 28 21, 22, 26, 27
Y	---	---
X	GB 1 373 923 A (MINNESOTA MINING & MFG) 13 November 1974 (1974-11-13) page 1, line 54 - line 63; claims 1-3, 5, 9, 12; figure 5 page 4, line 41 - line 71 page 5, line 1 - line 61 page 5, line 122 - page 6, line 32 ---	1-20, 23-25, 28
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 112 176 A (BAILEY ALLEN R) 5 September 1978 (1978-09-05) column 1, line 14 - line 22; claims 1,6,8,14; figures 2,3 column 1, line 45 - line 65 column 3, line 65 - column 4, line 2 column 5, line 4 - line 9 column 5, line 51 - line 59	1-20, 23-25, 28
Y	WO 96 38298 A (MILLIKEN RES CORP) 5 December 1996 (1996-12-05) abstract; figures 4-6 page 1, paragraph 1	26, 27 --
Y	US 5 170 526 A (MURRAY JOHN H) 15 December 1992 (1992-12-15) column 1, line 40 - line 54; figures	21, 22

INTERNATIONAL SEARCH REPORT

 Internat application No.
 PCT/GB 03/02551

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9622413	A	25-07-1996	CZ	9500130 A3	15-10-1997
			AU	4383596 A	07-08-1996
			WO	9622413 A1	25-07-1996
			EP	0804644 A1	05-11-1997
GB 1373923	A	13-11-1974	AR	194718 A1	14-08-1973
			AU	454388 B2	31-10-1974
			AU	3547171 A	17-05-1973
			BE	775042 A1	06-05-1972
			CA	1016330 A1	30-08-1977
			CH	547915 A	11-04-1974
			DE	2156255 A1	18-05-1972
			FR	2112547 A5	16-06-1972
			IT	942302 B	20-03-1973
			JP	54008014 B	12-04-1979
			US	3801421 A	02-04-1974
			ZA	7107478 A	26-07-1972
			CA	952644 A1	06-08-1974
			US	3711444 A	16-01-1973
US 4112176	A	05-09-1978	NONE		
WO 9638298	A	05-12-1996	US	5834086 A	10-11-1998
			AU	5720296 A	18-12-1996
			EP	0879143 A1	25-11-1998
			US	5928446 A	27-07-1999
			WO	9638298 A1	05-12-1996
US 5170526	A	15-12-1992	CA	2089723 A1	19-08-1993
			EP	0556967 A2	25-08-1993
			JP	3308017 B2	29-07-2002
			JP	5337072 A	21-12-1993